

# UNITED STATES DEPARTMENT OF COMMERCE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.		
09/646.355	11/16/00	SCHMIDT		Α	246472001600	

HM12/0425

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ARTUNIT PAPER NUMBER

DATE MAILED:

1617

04/25/01

Please find below and/or attached an Office communication concerning this application or proceeding.

**Commissioner of Patents and Trademarks** 

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	Applicatio	Application No. Applicant(s)									
Office Action Summary	09/646,35	5	SCHMIDT ET AL.								
omoo noush çammary	Examiner		Art Unit								
	San-ming	Hui	1617								
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply											
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status											
1) Responsive to communication(s) filed on	·										
	This action is i	non-final.									
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.											
Disposition of Claims											
4) Claim(s) 1-7 is/are pending in the application	n.										
4a) Of the above claim(s) is/are withdrawn from consideration.											
5) Claim(s) is/are allowed.											
6)⊠ Claim(s) <u>1-7</u> is/are rejected.											
7)⊠ Claim(s) <u>2</u> is/are objected to.											
8) Claims are subject to restriction and	or election re	quirement.									
Application Papers											
9) The specification is objected to by the Exami	iner.										
10) The drawing(s) filed on is/are objected to by the Examiner.											
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved.											
12) The oath or declaration is objected to by the Examiner.											
Priority under 35 U.S.C. § 119											
13) Acknowledgment is made of a claim for forei	gn priority und	der 35 U.S.C. <b>§</b> 119(a)	)-(d) or (f).								
a)⊠ All b)□ Some * c)□ None of:											
1. Certified copies of the priority docume	nts have beer	received.									
2. Certified copies of the priority documents have been received in Application No											
3. ☑ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).											
* See the attached detailed Office action for a list of the certified copies not received.											
14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).											
•											
Attachment(s)											
15) Notice of References Cited (PTO-892)  16) Notice of Draftsperson's Patent Drawing Review (PTO-948)  17) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 7  18) Interview Summary (PTO-413) Paper No(s)  19) Notice of Informal Patent Application (PTO-152)  20) Other:											

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#### **DETAILED ACTION**

## Specification

This application does not contain an abstract of the disclosure as required by 37 CFR 1.72(b). An abstract on a separate sheet is required.

## Claim Objections

Claim 2 is objected to because of the following informalities: parenthetical use in the claim (line 2-3). Appropriate correction is required.

## Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 1-7 provide for the use of a steroidal aromatase inhibitor, but, since the claim does not set forth any steps involved in the method/process, it is unclear what method/process applicant is intending to encompass. A claim is indefinite where it merely recites a use without any active, positive steps delimiting how this use is actually practiced.

Claims 1-7 are rejected under 35 U.S.C. 101 because the claimed recitation of a use, without setting forth any steps involved in the process, results in an improper

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definition of a process, i.e., results in a claim which is not a proper process claim under 35 U.S.C. 101. See for example *Ex parte Dunki*, 153 USPQ 678 (Bd.App. 1967) and *Clinical Products, Ltd.* v. *Brenner*, 255 F. Supp. 131, 149 USPQ 475 (D.D.C. 1966).

A broad range or limitation together with a narrow range or limitation that falls within the broad range or limitation (in the same claim) is considered indefinite, since the resulting claim does not clearly set forth the metes and bounds of the patent protection desired. Note the explanation given by the Board of Patent Appeals and Interferences in Ex parte Wu, 10 USPQ2d 2031, 2033 (Bd. Pat. App. & Inter. 1989), as to where broad language is followed by "such as" and then narrow language. The Board stated that this can render a claim indefinite by raising a question or doubt as to whether the feature introduced by such language is (a) merely exemplary of the remainder of the claim, and therefore not required, or (b) a required feature of the claims. Note also, for example, the decisions of Ex parte Steigewald, 131 USPQ 74 (Bd. App. 1961); Ex parte Hall, 83 USPQ 38 (Bd. App. 1948); and Ex parte Hasche, 86 USPQ 481 (Bd. App. 1949). In the present instance, claim 7 recites the broad recitation "0.0001-20% by weight", and the claim also recites "preferably 0.6% - 10% by weight, further preferably 1-5% by weight" which is the narrower statement of the range/limitation.

Claim 7 recites the limitation "the active compound" in line 1. There is insufficient antecedent basis for this limitation in the claim.

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In order to expedite prosecution herein, claims 1-7 drawn to the use of a steroidal aromatase inhibitor for the preparation of medicament will be treated on the merits herein, as method of manufacture claims.

# Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1,2, 6, and 7 are rejected under 35 U.S.C. 102(b) as being anticipated by Messenger (WO 96/08231 from the Information Disclosure Statement received September 18, 2000). See Example 1 on page 28 for the method of preparing a topical formulation of 4-hydroxyandrost-4-ene-3,17-dione.

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brodie et al. (Biol. Reprod. 1978, 18 (3): 365-70) in view of Messenger (WO 96/08231 from the Information Disclosure Statement received September 18, 2000) and Hanson (Remington: The Science and Practice of Pharmacy,19<sup>th</sup> ed. 1995, page 1218).

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Brodie et al. teaches that a pharmaceutical formulation of the steroidal aromatase inhibitor, 4-O-acetylandrost-4-ene-3,17-dione, is administered to a host for sustained release (See page 369, col. 2, second para.).

Brodie et al. does not expressly teach the formulation is a topical formulation.

Brodie et al. also does not expressly teach that the formulation contains a penetration promoting agent. Brodie et al. also does not expressly teach that the penetration promoting agent is dimethyl sulfoxide (DMSO).

Messenger teaches a process of making a topical formulation of any known steriodal aromatase inhibitor that contains no antigestagens (See especially page 10, lines10-15 and Example 1, page 28).

Hanson teaches that DMSO is useful as a penetration promoting agent in local administration of drugs (See page. 1218, first col., Uses section).

Therefore it would have been obvious for one of ordinary skill in the art at the time the invention was made to formulate 4-O-acetylandrost-4-ene-3,17-dione into a topical formulation with DMSO as the penetration promoting agent.

One of ordinary skill in the art would have been motivated to formulate 4-O-acetylandrost-4-ene-3,17-dione particularly into topical formulation with no antigestagen and a penetration promoting agent because Messenger suggests that the topical formulation therein containing no antigestagen may employ any known aromatase inhibitor including 4-O-acetylandrost-4-ene-3,17-dione. The incorporation of DMSO into the 4-O-acetylandrost-4-ene-3,17-dione topical formulation would have been expected

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to enhance the systemic absorption of the active agent herein based on its known topical penetration enhancing activity.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to San-ming. Hui whose telephone number is (703) 305-1002. The examiner can normally be reached on Monday to Friday from 8:30 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Minna Moezie, J.D., can be reached on (703) 308-4612. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-4556 for regular communications and (703) 308-4556 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1235.

San-ming Hui April 23, 2001

MINNA MOEZIE, J.U. SUPERVISORY PATENT EXAMINER SUPERVISORY CENTER 1800